

CURRICULUM VITAE

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Assistant Professor of Animal Science
Department of Animal and Food Sciences
University of Delaware

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EDUCATION:

<u>Dates</u>	<u>Degree</u>	<u>Institution</u>
2009-2013	B.S.	The Pennsylvania State University, State College, PA
2013-2017	V.M.D	University of Pennsylvania School of Veterinary Medicine Philadelphia, PA

POSTDOCTORAL TRAINING & FELLOWSHIP APPOINTMENTS:

2017-2018	Internship, Section of Field Service (Food Animal) <i>University of Pennsylvania, New Bolton Center, Kennett Square, PA</i>
2018	Workshop: Food Armor™, Accredited Veterinarian in 2019
2018-2019	Laboratory Animal Research Coordinator Training Program <i>University of Pennsylvania, Philadelphia, PA</i>
2019	Courses on Animal Welfare Science, Ethics, and Law <i>St. Catharine's College, Cambridge, England</i>
2018-2022	Residency, Section of Field Service (Food Animal) <i>University of Pennsylvania, New Bolton Center, Kennett Square, PA</i>
2018-2022	Diplomate, American College of Animal Welfare

FACULTY APPOINTMENTS:

2022-2024	Assistant Professor of Animal Science
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RESEARCH & TEACHING INTERESTS:

Preventative care and husbandry practices of beef and dairy cattle, small ruminants, equids, camelids, and swine

Animal welfare and compliance of university and commercial standards in dairy and beef cattle, small ruminants, equids, camelids, and swine

- Pain management at the time of disbudding in dairy calves
- Development, progression, and behavioral influence of post-farrowing shoulder lesions in production sows

SPECIALTY CERTIFICATION:

Diplomate, American College of Animal Welfare

LICENSURE:

National Veterinary License, Category II Accredited in PA, DE, MD

Delaware State Veterinary License

Maryland State Veterinary License

Pennsylvania State Veterinary License

AWARDS, HONORS and MEMBERSHIP in HONORARY SOCIETIES:

2017 Swine Proficiency Award, as recognized by the Swine Facility at New Bolton Center

2017 Dr. M. Lynn Summons Award for Excellence in Bovine Medicine

2018 SAVMA Class of 2018 Best Intern – New Bolton Center Campus
Awarded for Teaching and Mentoring Students

PROFESSIONAL ASSOCIATIONS:

2015-Present American Association of Swine Veterinarians (AASV)

2015-Present American Association of Bovine Practitioners (AABP)

2018-Present Dairy Cattle Welfare Council (DCWC)

2017-2020 American Veterinary Medical Association (AVMA)

ACADEMIC COMMITTEES AT THE UNIVERSITY OF DELAWARE:

2022-2025 University of Delaware Institutional Animal Care and Use Committee (IACUC)

ACADEMIC COMMITTEES OUTSIDE THE UNIVERSITY OF DELAWARE

2022-Present American College of Animal Welfare (ACAW) Training Committee

CLINICAL SERVICE AT THE UNIVERSITY OF PENNSYLVANIA SCHOOL OF VETERINARY MEDICINE:

2017-2018 Intern, Field Service (Food Animal) 45 hrs/week

2018-2022 Resident, Field Service (Food Animal) 50 hrs/week

PUBLICATIONS:

Gaab, T.; Wright, M.; Pierdon, M. Behavioral and Physiological Response to Routine Thermal Disbudding in Dairy Calves Treated with Transdermal Flunixin Meglumine. *Animals* **2022**, *12*, 533.

Gaab, T.; Nogay, E.; Pierdon, M. Development and Progression of Shoulder Lesions and Their Influence on Sow Behavior. *Animals* **2022**, *12*, 224.

GRANTS:

- 2019 Peter Lien Memorial Fund Grant
2020 Pennsylvania Department of Agriculture AG Animal Research Award

RESEARCH EXPERIENCE:

- 2014 Penn-Pitt Partnership in Veterinary Medicine Science Summer Research Program, Department of Neurobiology/Center for Pain Research, Pittsburgh, PA
Student Researcher: *Use of modified live rabies virus as a trans-neuronal tracer to study itch and pain pathways in rodents*
- 2015 PennVet Swine Teaching and Research Center, Kennett Square, PA
Student Researcher: *Development of EEGs and swine sleep patterns to indirectly measure relative stress levels*
- 2018-2020 PennVet Swine Teaching and Research Center, Kennett Square PA
Primary Researcher: *Development and progression of shoulder lesions and their influence on sow behavior*
- 2019-2020 Client dairies, Cochranville, PA
Primary Researcher: *Behavioral and physiological response to routine thermal disbudding in dairy calves treated with transdermal flunixin meglumine*
- 2021 Client dairy, Cochranville, PA
Primary Researcher: *Novel implementation of FARM on a Pennsylvania Dairy Farm*

STUDENT TRAINING:**Undergraduate:**

- 2018: Animal Health, Care, and Euthanasia Training, PennVet Swine Teaching and Research Center Interns – 25h
2019: Animal Health, Care, and Euthanasia Training, PennVet Swine Teaching and Research Center Interns – 25h
Down Cow and Euthanasia Decisions, Marshak Dairy Interns – 5h
2020: Animal Health, Care, and Euthanasia Training, PennVet Swine Teaching and Research Center Interns – 25h
2021: Animal Health, Care, and Euthanasia Training, PennVet Swine Teaching and Research Center Interns – 25h

Predoctoral:

- 2017: Field Service Case Presentations – 30h
2018: Field Service Case Presentations – 30h
Animal Welfare Summer Research Project, Advisor – 80h
2019: Field Service Case Presentations – 30h
Animal Welfare Summer Research Project, Advisor – 80h
2020: Field Service Case Presentations – 30h
2021: Field Service Case Presentations – 30h

Postdoctoral:

- 2018-2019 Brianna Parsons Intern, Field Service (Food Animal)

SEMINARS AND ORAL PRESENTATIONS:

- 2017 Penn Vet Talk, Kennett Square, PA

- 2018
- Speaker: *Food Animal Vet: Against All Odds*
 - Pennsylvania Farm Show Calving Corner, Harrisburg, PA
 - Speaker: *Calving Process and Dairy Cow Husbandry*
 - Penn Vet Food Animal Club Case Presentation, Philadelphia, PA
 - Speaker: *Food Animal Rounds*
 - Delaware County 4H Sheep Club Meeting, Newtown Square, PA
 - Speaker: *Ovine Gastrointestinal Physiology & Associated Pathologies*
 - Upper Management Training Course, Penn Wharton China Center, Beijing, China
 - Speaker: *Establishment of Treatment Protocols on Dairies*
 - Grand Rounds, Kennett Square, PA
 - Speaker: *Botulism in a Niche Dairy Herd*
- 2019
- Pennsylvania Farm Show Calving Corner, Harrisburg, PA
 - Speaker: *Calving Process and Dairy Cow Husbandry*
 - Grand Rounds, Kennett Square, PA
 - Speaker: *Escherichia coli Outbreak in Holstein Calves*
 - Penn Vet Food Animal Club “Bring Your Own Lunch” Talk, Philadelphia, PA
 - Speaker: *The Career Path of a Food Animal Field Veterinarian*
 - Humane Society Veterinary Medical Student Association, Philadelphia, PA
 - Panel Participant: *Large Animal Ethics*
 - Delaware County 4H Pig Club, Newtown Square, PA
 - Instructor: *Euthanasia and Necropsy of a Grower Pig*
 - Delaware County 4H Pig Club Meeting, Newtown Square, PA
 - Speaker: *Common Swine Diseases*
 - Third Party Animal Welfare Training, Chambersburg, PA
 - Speaker: *Disbudding Training*
 - Resident Research Rounds, Kennett Square, PA
 - Speaker: *Efficacy of Transdermal Flunixin Meglumine in a Multimodal Pain Management Protocol for Dehorning in Young Calves*
- 2020
- Pennsylvania Farm Show Calving Corner, Harrisburg, PA
 - Speaker: *Calving Process and Dairy Cow Husbandry*
 - Delaware County 4H Sheep Club, Chadds Ford, PA
 - Speaker: *Fun Facts about Sheep and Goats*
 - Grand Rounds, Kennett Square, PA
 - Speaker: *A Coyote Walks Into a Heifer Barn...: a case presentation on herd-wide rabies exposure and subsequent management strategies*
 - Grand Rounds, Kennett Square, PA
 - Speaker: *Post-Farrowing Shoulder Lesions in Production Sows*
- 2021
- Penn Vet Talk, Kennett Square, PA
 - Speaker: *My Journey Toward Making Sense of Animal Welfare in the Dairy Industry*
 - Animal Welfare Slack Group, online
 - Speaker: *My Journey Toward Making Sense of Animal Welfare in the Dairy Industry*
 - Grand Rounds, Kennett Square, PA
 - Speaker: *Not Your Father’s Pinkeye: an examination of a multi-farm pinkeye outbreak and vaccination strategy*

Penn Annual Conference, online

Speaker: *Navigating Animal Welfare in the Dairy Industry*

Garrett Williamson Foundation Seminar Series, Newtown Square, PA

Speaker: *Animal Welfare and Farm Animals*

Speaker: *Small Ruminant Biosecurity*

CONTINUING EDUCATION:

- 2018 VCSN 643/644 Animal Welfare Science
University of Pennsylvania, Philadelphia, PA
- 2019 EPID 803: Biostatistics in Practice
University of Pennsylvania, Philadelphia, PA
- 2019 Courses on Animal Welfare Science, Ethics, and Law
St. Catharine's College, Cambridge, UK

TEACHING RESPONSIBILITIES (DIDACTIC AND CLINICAL)

COURSES TAUGHT AT THE UNIVERSITY OF PENNSYLVANIA SCHOOL OF VETERINARY MEDICINE: (2017-2022)

- VMED600: Introduction to Clinical Veterinary Medicine I – Bovine Procedures
Lab (3h)
- VMED602: Introduction to Clinical Veterinary Medicine III – Bovine Procedures
Lab (3h)
- VMED602: Introduction to Clinical Veterinary Medicine III – Swine Herd Health
and Diagnostics, Swine Facility Biosecurity (8h)
- VMED618: Introduction to Clinical Veterinary Medicine IV – Bovine Procedures
Lab (12h)
- VMED608: Introduction to Poultry, Swine, and Dairy Medicine (4h)
- VCSN640: Large Animal Medicine Elective – Procedures of the Head and Neck
Lab (4h)
- VCSN643/644: Large Animal Reproduction – Bovine Reproductive Labs (18h)
- VCSN713/773: Field Service Clinical Rotation (50h/week)
- VCSN882: Swine Production Medicine – Farm Visits (8h)

COURSES TAUGHT AT THE UNIVERSITY OF DELAWARE: (2022-Present)

ANFS 220: Introduction to Equine Science (3 credits)

ANFS 240: Functional Anatomy (4 credits)

ANFS 324: Equine Disease and Lameness (3 credits)

ANFS 350: Animal Behavior (3 credits)

REGULATORY AND OVERSIGHT RESPONSIBILITIES:

- 2018-Present Weekly Herd Health Visits
Veterinarian of Record: *PennVet Swine Teaching and Research Center,
Kennett Square, PA*
Organic Treatment Protocols and Standard Operating Procedures

Development and Maintenance: *PennVet Swine Teaching and Research Center, Kennett Square, PA*

Traditional Treatment Protocols and Standard Operating Procedures

Revision and Maintenance: *PennVet Swine Teaching and Research Center, Kennett Square, PA*

Third-Party Audits – IACUC, USDA, Global Animal Partnership (GAP), Pennsylvania Certified Organic (PCO), AAALAC

Veterinarian of Record Participation: *PennVet Swine Teaching and Research Center, Kennett Square, PA*